**Solve the Equation**

**Problem Description**

Given the polynomial equation:

a0 + a1x + a2x2 + ... + anxn = 0

Find an integer solution to this equation in [1,m] (n and m are both positive integers).

**Input**

Enter a total of N + 2 lines.

The first line contains 2 integers, n and m, separated by a space.

The next n+1 lines contain one integer each. The integers are a0, a1, a2 ... an,respectively.

**Output**

The first line outputs the number of integer solutions to the equation within [1, m].

Next, there is one integer per line, each representing one integer solution of the equation within [1, m] in ascending order.

**Sample Input 1**

2 10

1

-2

1

**Sample Output 1**

1

1

**Sample Input 2**

2 10

2

-3

1

**Sample Output 2**

2

1

2

**Sample Input 3**

2 10

1

3

2

**Sample Output 3**

0

**Hint**

For 30% of the data: 0 < n ≤ 2, |ai| ≤ 100, an ≠ 0, m<100.

For 50% of the data: 0 < n ≤ 100, |ai| ≤ 10100, an ≠ 0, m<100.

For 70% of the data: 0 < n ≤ 100, |ai| ≤ 1010000, an ≠ 0, m<104.

For 100% of the data: 0 < n ≤ 100, |ai| ≤ 1010000, an ≠ 0, m<106.